

Cyclophilin A, 1-165 aa

Human, His tagged, Recombinant, *E.coli*

Cat. No. IBCYP0702

Synonyms: Peptidylprolyl isomerase A, PPIA, CYPA, CYPH

NCBI Accession No.: NP_066953

Description: Cyclophilin A (also known as Peptidylprolyl isomerase A, PPIA) encodes a member of the peptidyl-prolyl cis-trans isomerase family. They are highly-conserved cytoplasmic enzymes that accelerate protein folding. Cyclophilin A is also incorporated into many viruses, including HIV-1, where it has been speculated to be involved in functions such as viral assembly and infectivity. Recombinant human PPIA, was expressed in *E.coli* and purified by using conventional chromatography techniques.

Form: Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 20 mM NaCl, 0.5 mM DTT, 10% glycerol

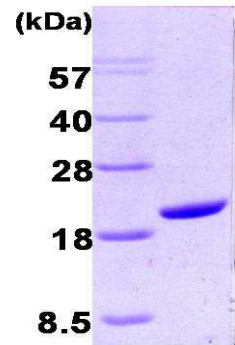
Molecular Weight: 20kDa (185aa), confirmed by MALDI-TOF

Purity: > 95% by SDS - PAGE

Concentration: 1 mg/ml (determined by Bradford assay)

Endotoxin Level: < 1.0 EU per 1 µg of protein (determined by LAL method)

Biological activity: Specific activity is > 650 nmol/min/mg, and is defined as the amount of enzyme that cleaves 1nmole of suc-AAFP-PNA per minute at 37C in Tris-HCl pH 8.0 using chymotrypsin.



15% SDS-PAGE (3µg)

Sequences of amino acids:

MGSSHHHHHH SSGLVPRGSH MVNPTVFFDI AVDGEPLGRV SFELFADKVP KTAENFRALS TGEKGFYK SCFHRIPGF MCQGGDFTRH
NGTGGKSIYG EKFDENFIL KHTGPGILSM ANAGPNTNGS QFFICTAKTE WLDGKHVVFG KVKEGMNIVE AMERFGSRNG KTSKKIT IAD
CGQLE

General references:

Holzman, T.F., *et al*, (1991). *J. Biol. Chem.* **266**(4): 2474-2479

Berthoux L , *et al*, (2005). *Proc Natl Acad Sci U S A.* **102**(41):14849-53

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.
Avoid repeated freezing and thawing cycles

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



Manufactured for:

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